

BELYKH, B.P., dots.; PETROV, I.P., dots.; PETROV, Yu.S., kand.tekhn.nauk;
KOMLEV, V.P., assistant

Good manual for higher schools. Izv.vys.ucheb.zav.: gor.zhur.
no.4:141-144 '58. (MIRA 11:11)
(Mining engineering--Study and teaching)

PIETROV, I.P., dotsent; IL'INYKH, A.F., inzh.

Multichannel TM-TS system with polarity-amplitude block
selection. Izv.vys.ncheb.zav.; por.zhur. no.4:P1-86 '59.
(MIRA 11:5)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva.
Rekomendovana kafedroy gornoj elektrotekhniki.
(Mine communications)
(Remote control)
(Telemetering)

PETROV, I.P.

Dust suppression by steam. Kolyva 21 no.1:27-30 Ja '59.

(MIRA 12:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zolota i redkikh
metallov, Magadan.

(Mine dusts)

FROLOV, Petr Prokhorovich, dotsent. Prinimali uchastiye: ZVYAGIN, V.S., dotsent; PETROV, I.P., dotsent. VESELOV, A.I., prof., doktor tekhn.nauk, retsenzent; BOROKHOVICH, A.I., dotsent, retsenzent; KHOMITSEVICH, K.I., otv.red.; D'YAKOVA, G.B., red.izd-va; SABITOV, A., tekhn.red.; LOMILINA, L.N., tekhn.red.

[Mine compressor equipment] Rudnichnoe kompressornoe khoziasstvo.
Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po gornomu delu, 1961.
227 p. (MIRA 14:4)

(Air compressors)

DEMIN, A.M., kand. tekhn. nauk; CHESTKOV, V.K.; VASIL'YEV, M.V.,
kand. tekhn. nauk; YEFIMOV, I.P.; KOKH, P.I.; KMITOVENKO, A.T.,
dots.; PRISEDSKIY, G.V., inzh.; DUNAYEVSKIY, Yu.N.; VOLOTKOVSKIY,
S.A., prof., doktor tekhn. nauk; KOR'YAN, A.I., kand. tekhn.
nauk; MAYMID, S.R., kand. tekhn. nauk; MIKOSHNIK, A.M., kand.
tekhn. nauk; PETROV, I.P., kand. tekhn. nauk; TURYSHEV, S.F.,
kand. tekhn. nauk; SHILCHKOV, A.I., kand. tekhn. nauk;
AVERBUKH, I.D., inzh.; VARSHAVSKIY, A.V.; KRYUKOV, S.K.; LILAS,
V.A.; PDNEYEV, V.A.; SMIRNOV, A.A., otv. red.; LYUBIMOV, N.G.,
red. izd-va; MAKEDONVA, V.V., tekhn. red.

[Handbook for the operator and mechanic of open-pit mine equip-
ment] Spravochnik mekhanika ugol'nogo kar'era. Moskva, Gos.
nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 639 p.
(MIRA 15:3)

(Strip mining--Equipment and supplies)
(Coal mining machinery) (Electricity in mining)

DEMIN, A.M., kand. tekhn. nauk; CHELTKOV, V.K.; VASIL'YEV, M.V.,
kand. tekhn. nauk; YEFIMOV, I.P.; KOKH, P.I.; KMITOVENKO, A.T.,
dots.; PRISEDSKIY, G.V., inzh.; DUNAYEVSKIY, Yu.N.; VOLOTEVSKIY,
S.A., prof., doktor tekhn. nauk; KLEBYAN, A.I., kand. tekhn.
nauk; MAYMIN, S.R., kand. tekhn. nauk; MINOSHNIK, A.M., kand.
tekhn. nauk; PETROV, I.P., kand. tekhn. nauk; TURYSHEV, B.F.,
kand. tekhn. nauk; SHECHKOV, A.I., kand. tekhn. nauk;
AVERBUKH, I.D., inzh.; VARSHAVSKIY, A.V.; KRYUKOV, D.K.; LUKAS,
V.A.; MINEYEV, V.A.; SMIRNOV, A.A., otv. red.; LYUBIMOV, N.G.,
red. izd-va; MAKSEDOVA, V.V., tekhn. red.

[Handbook for the operator and mechanic of open-pit mine equip-
ment] Spravochnik mekhanika ugol'nogo kar'era. Moskva, Gos.
nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 639 p.

(MIRA 15:3)

(Strip mining--Equipment and supplies)
(Coal mining machinery) (Electricity in mining)

MEMORANDUM FOR THE DIRECTOR

RE: [REDACTED]

DATE: [REDACTED]

BY: [REDACTED]

PETROV, I.P., kand. tekhn. nauk; SEMENOV, G.N., kandyd. fiz.-mat. nauk.
Inzh.

Automatic control of cutting machines and mining cutter-loaders.
Izv. vys. ucheb. zav. gor. zhur. no.9:132-136 '62 (MIRA 1962)

1. Sverdlovskiy gornyy institut imeni V.V. Vakhrameeva. Bez nauch.
dovana kafedry gornoy elektrotehniki.

L 04732-67
ACC NR. AP6025975

SOURCE CODE: UR/0051/66/021/001/0139/0140

AUTHOR: Grechushnikov, B. N.; Petrov, I. P.; Shayrev, G. V.

ORG: none

TITLE: A problem of the aperture of a Fourier spectrometer based on a polarization interferometer

SOURCE: Optika i spektroskopiya, v. 21, no. 1, 1966, 139-140

TOPIC TAGS: Fourier spectrometer, interferometer, interference light modulator, optic interference, optic measurement

ABSTRACT: The authors discuss the gain in the light output from a polarization interferometer as compared to the Michelson interferometer. V. K. Stil' and A. Merts (cf. *Opt. i spektr.*, 20, 910, 1966) have shown that the difference between the two instruments is not as significant as the authors had noted in their previous work (*Opt. i spektr.*, 18, 130, 1965). It is apparent that Stil' and Merts' conclusion is valid only as an approximation in which the higher order components of resolution are neglected. For large aperture angles, the magnitude of such components is not sufficiently small. To resolve the problem, an accurate expression for percentage modulation as a function of aperture angle can be generated:

UDC: 535.33:517.512.2

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ACC NR: AP6025975

$$A = \frac{1}{X} \int_0^X J_0(t) dt,$$

where $J_0(t)$ is a zero order Bessel function, $X = a\theta^2/2n^2$ for $n_0 = n_g = n$. This function is plotted together with the corresponding functions for the Michelson interferometer and the approximate relation

$$\frac{\theta_1^2}{\theta_2^2} = \frac{n^2}{\sqrt{2}}.$$

derived by Stil' and Merts. It is obvious from the plot that the modulation for the polarization interferometer is never reduced to zero, thus the comparison of the light output based on this criterion is not sufficiently justified. Orig. art. has: 1 figure.

SUB CODE: 20/

SUBM DATE: 03Dec65/

ORIG REF: 002

Card 2/2 10

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Monograph

UR/

Voronkova, Yelena Mikhaylovna; Jrechushnikov, Boris Nikolayevich; Distler, Grigoriy Icaukovich; Petrov, Igor' Petrovich
Optical materials for infrared engineering; a reference edition (Opticheskiye materialy dlya infrakrasnoy tekhniki; spravochnoye izdaniye) Moscow, Iz-dvo "Nauka", 1965. 335 p. illus., biblio., index. (At head of title: Akademiya nauk SSSR. Institut kristallografi) Errata slip inserted. 3,000 copies printed.

TOPIC TAGS: In optic material, optic crystal, optic glass, plastic lens
PERMISSION AND COVERAGE: The book is devoted to the properties of crystalline substances which are most important for use as optical materials in infrared technology. It contains data on optical, thermal, mechanical, electrical, and other characteristics which are necessary for effective utilization of these materials. The necessary data, which are scattered in numerous books and original articles, have been gathered together and 74 materials have been selected as a result of an analysis of the large number of literature data. This includes also the most interesting techniques of glass and plastic. The book is in the form of a handbook with the characteristics of each individual material described in detail. Authors are grateful to L. D. Kiselevskiy for valuable advice and remarks, Professor M. V. Klannikovskiyudova for valuable critical remarks, and I. M. Sil'vestrov and L. A. Blumov for help with the work.

UDC: 548.0 : 535/539(038)

ACC NRI 00004737

TABLE OF CONTENTS [abridged]:

Foreword - - 3

Ch. I. Optical materials for infrared applications - - 5

Ch. II. Characteristics of optical materials - - 15

Ch. III. Comparative characteristics of optical materials - - 20

Ch. IV. Construction of handbook - - 48

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Index - - 331

SUB CODE: 11, 20/ SUBM DATE: 20Apr65/ ORIG REF: 070/ OTH REF: 641

Card 2/2

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430003-4

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430003-4"

PETROV, I.F., dotsent; SEMENTSOV, G.N., inzh.; SITNIKOV, N.B., inzh.

Regulating the power consistency of the rotary mechanism motor
on the SBR-140-77V portable machine. Izv. vys. ucheb. zav.; gor.
zhir. 7 no.10:146-151 1964. (MIRA 18:1)

1. Sverdlovskiy gornyy Institut imeni V.V. Vakhrusheva. Rekomen-
dovana kafedroy gornoy elektrotehniki.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430003-4

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430003-4"

TRYSHEV, Boris Fedorovich, kandi. tekhn. nauk, 1944; kandi. tekhn. nauk, 1944; kandi. tekhn. nauk, 1944.

(Dis)stations and networks on air engineering; for students studying "Electrical engineering for air."
Podstantsii i seti na poverkhnosti i podzemno; kandi. tekhn. nauk, 1944; kandi. tekhn. nauk, 1944; kandi. tekhn. nauk, 1944.
dlya studentov special'nosti "Avtomata elektromekhanika."
Sverdlovsk, Spetsial'noye izdatel'stvo inzh. i tekhn. nauk, 1944.

11 A 11

PETROV, I.B.

Selective dust collection in the boring of holes. Vop. bezop. v
ugol'. shakh. 4:121-133 '64. (MIRA 18:1)

PAVLENKO, Yu.P., inzh.; PETROV, I.I., kand. tekhn. nauk

Application of water air ejectors for combatting dust. Ugol'
40 no.1:67-68 Ja '65. (MIRA 19:4)

1. Vostochnyy nauchno-issledovatel'skiy institut po
bezopasnosti rabot v gornoy promyshlennosti.

"APPROVED FOR RELEASE: 07/19/2001

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1. 16577-65 EWT(m)/EWP(t)/EWP(b) RAEM(c)/ESD(t)/ESD(gs)/AFWL/ASD(a)-5/
AS(mp)-2/AFMD(t)/IJP(c) JD

ACCESSION NR: AP5000297

S/0070/64/009/006/0928/0929

AUTHORS: Dobrzhanskiy, G. F.; Belyayev, L. M.; Petrov, I. P.;
Ry*bkin, Yu. F.; Fedosov, A. Ye.; Cherny*shev, K. S.

TITLE: Transmission spectra of copper chloride and bromide single
crystals 27 27 27

SOURCE: Kristallografiya, v. 9, no. 6, 1964, 928-929

TOPIC TAGS: copper compound, single crystal, ir spectrum, optical
transmission, crystal growth

ABSTRACT: The transmission spectra of single crystals of copper
chloride and bromide were measured in the infrared region of the
spectrum. The crystal growth procedure was described by some of
the authors elsewhere (Collection: Rost kristallov [Crystal Growth]
v. 3, 342, 1961). Particular attention was paid to the purity of
the initial reagent and thorough cleaning of the produced crystal.

CuCo 1/3

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ACCESSION NR: AP5000297

The samples were made in the form of plane-parallel plates ~3 mm thick. An infrared DS-301 spectrometer was used with presence of sodium chloride (up to 15 μ) and potassium bromide (up to 25 μ). A Hilger H-800 spectrometer was used above 25 μ (cesium iodide prism). The measurements show that the single crystals have good transmission on the order of 80% without selective absorption bands, up to ~18 μ for the chloride and 24 μ for the bromide, with a long-wave transmission limit at 22 and 32 μ respectively; they are therefore of interest for infrared technology and spectroscopy. "The authors thank Ye. I. Kortukova and L. D. Kislovskiy for help with the optical measurements, and Ye. P. Meshcheryakova for the x-ray analysis." Orig. art. has: 2 figures.

ASSOCIATION: Institut kristallografii AN SSSR (Institute of Crystallography AN SSSR)

SUBMITTED: 09Jun64

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L 16577-65

ACCESSION NR: AP5000297

SUB CODE: OP, SS

NR REF SOV: 001

OTHER: 000

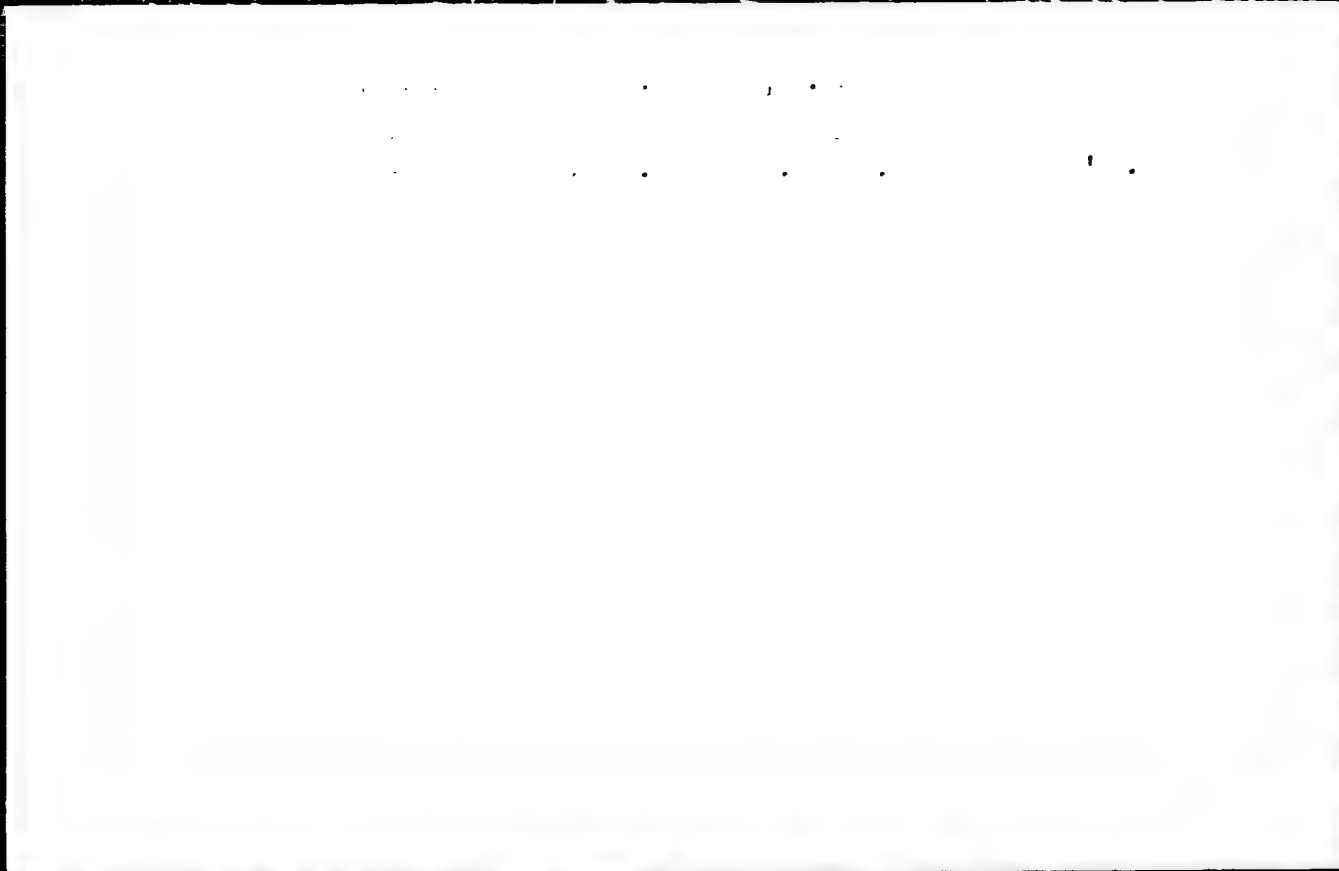
Card : 3/3

PETROV, I.P., kand.tekhn.nauk; GAL'PERIN, A.I., kand.tekhn.nauk

Standard series pipe-laying cranes. Stroitel'skiye mashiny i
Jl '63. (MIRA 1/8.)

"APPROVED FOR RELEASE: 07/19/2001

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APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430003-4"

PAVLENKO, Y. P., inzh.; PETROV, I. P., inzh.

Results of controlling dust during development working with
the help of a cutter-loader. Ugol' 39 no.3:62-63 My'64.

(MIRA 17:51)

1. Vostochnyy nauchno-issledovatel'skiy institut po
bezopasnosti rabot v gornoy promyshlennosti.

PETROV, I. P.

ARONOV, B. I. Kand. tekhn. nauk. dots. Nauchno-issledovatel'skiy institut po
stroitel'stvu Ministerstva neftyanoy promyshlennosti i KAMERSHTEIN, A. G. -
Kand. tekhn. nauk. i DOLGOV, V. K. - Inzhener i PETROV, I. P. - Inzhener

Izucheniye napryazheniy v krivolineynykh uchastkakh truboprovodov s uchetom
zashchleniya v grunte. Page 86

PETROV, I.P., inzh., laureat Stalinskoy premii.

Investigating the state of stress in pipelines during construction.

Trudy VNIISTroinefti no.5:5-34 '53. (MIRA 12:2)

(Pipelines) (Strains and stresses)

PETROV, I.P., inzh., laureat Stalinskoy premii; DOLGOV, V.K., inzh., laureat Stalinskoy premii

Cold bending of pipes directly on the pipeline-laying site.
Trudy VNIISTroinefti no.5:85-93 '53. (MIRA 12:2)
(Pipe bending)

PETROV, I.P., laureat Stalinskoy premii, kandidat tekhnicheskikh nauk.

Method for calculating oil and gas pipelines taking actual operating conditions into consideration. Trudy VNIi Stroinefti no.6:61-81 '54.
(MIRA 10:1)

(Petroleum--Pipelines) (Gas, Natural--Pipelines)

KAMERSHTEYN, I.G., laureat Stalinskoy premii; PETROV, I.P., laureat Stalinskoy premii.

Building steel pipelines constructed of spiral welded pipes.
Stroi.prom.32 no.12:36-40 D'54. (MLRA 8:3)
(Pipe, Steel)(Pipelines)

PETROV, I.P., laureat Stalinskoy premii; KAMERSHTEYN, A.G., laureat Stalinskoy premii; DOLGOV, V.K., laureat Stalinskoy premii; SNITKO, I.K., kandidat tekhnicheskikh nauk, redaktor; TOKER, A.M., tekhnicheskii redaktor

[Calculation of steel pressure pipe strength] Raschet napornykh stal'nykh truboprovodov na prochnost'. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 165 p. (MLRA 8:7)
(Pipe, Steel)

GOLOVACHEV, L.P., inzhener; PETROV, I.P., kandidat tekhnicheskikh nauk;
KUZ'MIN, K.G., inzhener.

Stressed reinforced multihollow floor panel with posttensioned
reinforcement. Stroipred.naft.prom. 1 no. 9145 N '56. (MIRA 10:1)
(Reinforced concrete construction)

GOLOVACHEV, L.P., inzhener; PETROV, I.P., kandidat tekhnicheskikh nauk;
KUZ'MIN, K.G., inzhener.

Prestressed hollow panels for floors with posttensioned
reinforcements. Stroi.pred.neft.prom. 1 no.10:4-7 D '56.
(MLRA 10:2)

(Prestressed concrete construction)

PETROV, I.P., kandidat tekhnicheskikh nauk.

Results of improper organization and poor-quality work. Strel. pred.
neft. prom. 2 no.2:9-10 F '57. (MIRA 10:4)
(Precast concrete construction) (Petroleum--Pipelines)

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p. 177, USSR

AUTHOR: Petrov, I. P.

TITLE: Investigation of the Stress Distribution in a 720 mm Diameter Pipe and the Performance of the Pipe Layers in the Process of Construction
(Issledovaniye napryazhennogo sostoyaniya truboprovoda diametrom 720 mm i raboty truboukladchikov v protsesse stroitel'stva)

PERIODICAL: Tr. Vses. nauch. inst. po stroyu ob'ektovet s gaz. podsl. 1957, Nr 9, pp 80-110

ABSTRACT: Bibliographic entry

Card 1 1

11(3)

1968-1969

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PETROV, I.P., kand. tekhn. nauk.

Laying pipelines into trenches immediately after welding long pipes.
Stroi. pred. neft. prom. 3 no.3:1-3 Mr '58. (MIRA 11:6)
(Pipelines)

TURKIN, V.S., kand. tekhn. nauk; PETROV, I.P., kand. tekhn. nauk.

Deformations in structures in macroporous ground. Stroi. truboprov.
3 no.7:16-18 JI '58. (MIRA 12:1)
(Foundations)

14(9)

SOV/95-59-3-4/14

AUTHORS: Petrov, I.P., Candidate of Technical Sciences, and Spiridonov, V.V., Engineer

TITLE: "Serpentine" Method of Pipeline Laying (Prokladka truboprovodov "zmeykoy")

PERIODICAL: Stroitel'stvo truboprovodov, 1959, Nr 3, pp 10-15 (USSR)

ABSTRACT: Geological conditions make it at times necessary to resort to overground constructions of pipelines, as for instance in crossing over ravines, swamps, certain rivers, etc. In these cases the pipeline becomes subject to such influences as those of changing temperature and internal pressure, which require allowance to be made for longitudinal deformations. This can be achieved either by the insertion of special compensatory (U-shaped) sections, or by a method, which provides for the pipeline to be laid in a serpentine, or wave form, with half-a-wave extending over a distance of 100-250 m. The pipeline rests on so called dead supports, which permit of no movement of the pipeline, and on intermediate or movable supports on which the pipeline is hinged, permitting a lengthwise shift of the pipe. The overground pipeline construction

Card 1/2

PETROV, I.P., inzh.; RIVKIN, G., inzh.

Drilling rods made of pipes. Bezop.truda. v prom. 4 no.6:24 Je '60.
(MIRA 14:3)

(Boring machinery)

PETROV, I.P., kand.tekhn.nauk; SPIRIDONOV, V.V., kand.tekhn.nauk

Constructing suspension crossings without compensating for
longitudinal deformations. Stroi. tr.boprov. 5 no.7:8-12

Jl '60.

(MIRA 13:9)

(Pipelines)

PETROV, I.P., kand.tekhn.nauk; SPIRIDONOV, V.V., kand.tekhn.nauk

Above-ground crossings with angle bends. Stroi. truboprov. 6
no. 2:6-9 F '61. (MIRA 14:5,
(Pipelines)

PETROV, I. P., kand. tekhn. nauk; SPIRIDONOV, V. V., kand. tekhn. nauk

Design of the supports for laying pipelines above ground.
Stroi. truboprov. 8 no.4:12-17 Ap '63. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'-
stvu magistral'nykh truboprovodov (for Spiridonov).

(Pipelines—Design and construction)

PETROV, I. P.

~~USSR~~/ Miscellaneous - Foundry processes

Card 1/1 : Pub. 61 - 5/23

Authors : Petrov, I. P.

Title : Arrangement for the preheating of cupola air-blast

Periodical : Lit. proizv. 3, 12-14, May-June 1954

Abstract : A special arrangement for the heating of cupola blast-air of foundry furnaces is described. The mode of operation of this arrangement (regenerator), is explained. Graphs; drawings.

Institution : ...

Submitted : ...

PETROV, I. P.

2

USSR,

Making nodulized iron in a cupola collector. I. P. Petrov. *Lit'noe Proizvodstvo* 1955, No. 1, 3-5. The iron is melted as usual, collected in the forehearth, freed from slag, and Al₂O₃ contained in a bell is immersed in the metal. Since the atm. of the forehearth is low in O₂ and its cover prevents contact with the atm., the method provides a perfectly safe method for nodulization. I. D. Gai

11 29/11

PETROV, I. P.

✓ Forbearth for production of high-strength iron, I. P. ||
U.S.S.R. 102,420, Mar. 25, 1956. Addn. to ||
U.S.S.R. 63,011. M. H.

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PETROY, I. P.

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18
Strengthening of cupola iron melt. I. P. Petrov
U.S.S.R. 104,269, Nov. 25, 1958. Fe melted in a cupola is
strengthened by the addn. of Mg rods to the molten metal.
This addn. is made in the spout of the cupola. M. Hosen

PH
myi

PETROV, Ivan Prokhorovich; TRAKHTENBERG, B.F., kandidat tekhnicheskikh nauk, redaktor; GOLDSTEYN, L.Ye., redaktor; SECHERBAKOV, A.I., tekhnicheskiy redaktor

[Production of high-strength magnesium cast iron] Proizvodstvo vysokoprochnogo magnievogo chuguna; iz opyta Syzranskogo gidroturbinnogo zavoda. Pod red. B.F.Trakhtenberga. [Kuibyshev] Kuibyshevskoe knizhnoe izd-vo, 1956. 42 p. (MLRA 10:9)
(Cast iron--Metallurgy)

AUTHOR: Petrov, I.P. Engineer, 195-18-1-10/10

TITLE: An Improved Method of Magnesium Treatment of Cast Iron in a Receiver (Usovershenstvovaniye metoda modifikatsii chuguna magniyem v kopil'tse)

PERIODICAL: Liteynoye proizvodstvo 1958 Nr 5, pp 13-14 (USSR)

ABSTRACT: The Syzranskiy zavod tyazheloego mashinostroyeniya (Syzran' Heavy Machine Building Plant) has already produced over 2,000 t of machine-part-castings of cupola iron, modified by metallic magnesium (added in shells directly into the cupola receiver). Before the modernization of the plant's cupola Nr 2 described in this article, these castings were only made of steel. The design of the new receiver, and its magnesium shell are illustrated. The shell must be charged with magnesium pieces of different size and weights from a few grams up to 2 - 3 kg. This is necessary to assure the formation of magnesium vapors immediately after the immersion of the shell into the metal and uniform further vapor formation throughout treatment. To extend the time during which the magnesium vapors pass through the metal mass, the holes in the shell are of small diameter. For instance, a shell of 10 kg capacity for 1.5 t cast iron.

Card 1/2

An Improved Method of Magnesium Treatment of Cast Iron in a Receiver

is provided with 4 rows of 5 mm diameter holes. After charging, the shell is closed by a 5-10 mm thick bottom pierced with holes of 10 mm diameter for free penetration of metal into the shell.
There are 2 figures.

AVAILABLE: Library of Congress
Card 2/2

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ACCESSION NR: AP5017913

UR/0051/65/019/001/0151/0153

AUTHORS: Petrov, I. P.; Grechushnikov, B. N.

44,55
24
B

TITLE: Photographic method of recording in Fourier spectrometry

SOURCE: Optika i spektroskopiya, v. 19, no. 1, 1965, 151-153

TOPIC TAGS: spectrometry, photometric analysis, Fourier spectrometer, radiation spectrometer

ABSTRACT: After briefly describing the principles underlying Fourier spectrometry, the authors indicate that instruments based on the interference of polarized beams produced by double refraction in a crystal have superior transmission (luminosity) than apparatus of the Michelson interferometer type. In particular, it is recommended to photograph the interference pattern obtained when the entire wedge is illuminated by a parallel beam of the light under study, and then make a photometric analysis of the photograph of the interference pattern. To test the photographic method of recording in Fourier spectrometry, the authors constructed a breadboard device which enabled them to

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ACCESSION NR: AP5017913

analyze emission of not too complex spectral composition in the visible portion of the spectrum. The emission chosen for study was the luminescence of Rhodamine S. The interference pattern was recorded with panchromatic photographic plates and the true emission spectrum, as reconstructed from the measurement data, was found to be quite close to the measured spectrum. The method is especially recommended for high-speed emissive processes and for spectra of low-intensity astronomical objects, since the accumulation of the signal afforded by the photography is then very useful. Orig. art. has: 2 figures and 3 formulas.

ASSOCIATION: None

SUBMITTED: 29Jan65

ENCL: 00

SUB CODE: OP

NR REF SOV: 008

OTHER: 004

lek
Card 2/2

PETROV, Ivan Prokhorovich; TOLMIRILI, L., red.; GOLUBOVA, Ye.,
tekhn. red.

[Progressive foundry practices] Progressivnaisa tekhnologiya
proizvodstva lit'ia. Penza, Penzenskoe knizhnoe izd-vo,
1964. 118 p. (MIRA 16:L.)

(Founding)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430003-4

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CIA-RDP86-00513R001240430003-4

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430003-4"

PETROV, Iv.; PAVLOV, Sp.

Morphometric characteristics of the scapula in newborn infants.
Folia med. (Plovdiv) 6 no.4:209-215 '64

1. Institut de Hautes Etudes Medicales "I.P.Pavlov" de Plovdiv,
Bulgarie; Chaire d'Anatomie (Directeur: prof. D. Stankov)

1966

AUTHOR: Peters, I. P.

[illegible]

PERIODICAL: Reference, 1960, American Psychological Association, Washington, D. C. 20007, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 26

[illegible]

Card . . .

GRECHUSHNIKOV, B.M., PETROV, I.F.

Accuracy of Waterman's polarimeter. Opt. i spektr. 1964: 521-522. Ap 1964. (MIRA 15:4)
(Polariscope)

LUKAS, V. A.; PETROV, I. P.

Possibility for extending the use of a set of infralow-frequency
devices. Prihorostroenie no.12:29 D '62.

(MIRA 16:1)

(Electronic control)

SIROTINSKIY, L.I.; POLIVANOV, K.M.; NETUSHIL, A.V.; BABIKOV, M.A.;
SYROMYATNIKOV, I.A.; DROZDOV, I.G.; FEDOSEYEV, A.M.; CHILIKIN, M.G.;
BESSONOV, L.A.; BUTKEVICH, G.V.; ZHEKULIN, L.A.; KEYMAN, L.E.;
GORTINSKIY, S.M.; SMIRNOV, A.D.; MAMIKONYANTS, L.G.; PETROV, I.P.

Vsevolod Iur'evich Lomonosov; obituary. Elektrichestvo no.12:88
D '62. (MIRA 15:12)

(Lomonosov, Vsevolod Iur'evich, 1899-1962)

L 13392-63

INT(1)/INT(q)/INT(m)/BDS AFFIC/ASD/APGC/SSD WH

ACCESSION NR: AF3000786

8/0070/63/008/003/0465/0468

AUTHOR: Greebushnikov, B. N.; Distler, G. I.; Petrov, I. P.65
61TITLE: A Fourier spectrometer with filters

SOURCE: Kristallografiya, v. 8, no. 3, 1963, 465-468

TOPIC TAGS: quartz, spectral transmission, Fourier series, low-intensity radiation, interference-polarisation filter

ABSTRACT: The authors reduce the task of determining spectral composition of low-intensity radiation to computation of Fourier coefficients by solving a system of algebraic equations, shown in Formula (1). The right side of these equations may be determined by measurement, to be made on an instrument constructed at the Institute of Crystallography AN SSSR. This instrument consists of a mirror optical system, Fourier filters, and a receiver-amplifier current with automatic recorder. The optical system has two mirrors and objectives of fluorite, producing a beam of light with a half angle of resolution of 4 degrees. A shutter with seven Fourier filters is placed in this beam, and the light is directed to the intake of the receiver-amplifier circuit (the panel from an IKS-12 spectrometer or a standard 28IM amplifier). The amplified signal is then introduced to the intake of an

Card 1/3

L 13392-63

ACCESSION NR: AF3000786

EPR-09¹⁵ electronic potentiometer⁴ The filters are made of quartz of various computed thicknesses to give the proper effect. The authors expect this device to solve a number of various kinds of spectral problems, such as determination of spectral sensitivity of photoelectric cells. Orig. art. has: 3 figures and 7 formulas.

ASSOCIATION: Institut kristallografii AN SSSR (Institute of Crystallography, Academy of Sciences SSSR)

SUBMITTED: 13Aug62

DATE ACQ: 21Jun63

ENCL: 01

SUB CODE: 00

NO REF SOV: 003

OTHER: 000

Card 2/3

L 13393-63

BDS

ACCESSION NR: AF3000767

3/0070/63/008/003/0468/0471

AUTHOR: Grechushnikov, B. N.; Distler, G. I.; Petrov, I. P.

TITLE: A Fourier spectrometer for work in the near-infrared region of the spectrum
Results were presented at the All-Union Conference of Spectroscopy, 1959/

SOURCE: Kristallografiya, v. 8, no. 3, 1963, 468-471

TOPIC TAGS: Fourier transformation, infrared spectrum, quartz wedge, spectrometer, luminescence

ABSTRACT: This is an expansion of the device and application discussed in a previous article by the same authors (Kristallografiya, 8, 3, 1963). The expansions include substitution of a quartz wedge in the optical system in order to make use of the Fourier transformation and the addition of extra circuits and instruments to permit the desired measurements of near-infrared radiation. The optical arrangement and construction of the quartz wedge are shown in Figs. 1 and 2. The schematic arrangements of circuits in the setup are shown in Figs. 3 and 4. The authors used the apparatus to study luminescence spectra of several crystals in the visible and near-infrared regions of the spectrum. The results were not reported in this article but were reported previously in a short presentation at the All-Union Conference on Spectroscopy in 1959.

Card 1/6/

ASSN: Inst. of Crystallography, Academy of Sciences, SSSR

50
49

S/051/63/014/002/022/026
E039/E120

AUTHORS: Grechushnikov, B.N., and Petrov, I.P.

TITLE: A polarizer for the infrared region of the spectrum

PERIODICAL: Optika i spektroskopiya, v.14, no.2, 1963, 305-307

TEXT: Calculations are made showing the increase in reflection coefficient with increase of refractive index n at the Brewster angle, i.e. from $\sim 20\%$ at $n = 2$ to $\sim 43\%$ at $n = 8$. An estimate is also made of the dependence of the angular aperture of the incident beam on n when the degree of polarization is not less than 99%. It is shown that with increase in n the angular aperture of the incident beam decreases smoothly. For the transmission of a polarizer to be not less than 30%, with the angular aperture of the incident beam $\sim 6 - 7^\circ$, then $4 \leq n \leq 5$. A polarizer based on reflection from a layer of PbS is described. The incident beam strikes the first boundary of a glass prism, which is coated with a layer of PbS ($n = 4.2$) and is reflected on to an aluminium mirror which in turn directs the beam on to the second boundary of the prism from which it is reflected to its original direction (see Fig.2). For angles of incidence between

Card 1/2

KURBATSKIY, I.L., inzh.; PETROV, I.P., inzh.; USTINOV, A.I., inzh.;
CHERNYY, A.A., inzh.; ~~MURZIN~~, V.G., inzh.; ZHITOMIRSKIY, M.B., inzh.

Manufacture of large compressor parts from extra-strong cast iron.
Khim.mashinostr. no.5:36-37 S-O '63. (MIRA 16:10)

FROLOV, Petr Prokhorovich. Prinimal uchastiye PETKOV, I.P.,
kand. tekhn. nauk, dots.; PLOTNIKOV, K.S., otv. red.;
D'YAKOVA, G.B., red.izd-va; ZHIVIRINA, G., tekhn. red.

[Manual on mine compressor plants] Spravochnoe rukovod-
stvo po rudnichnomu kompressorному khoziaistvu. Moskva,
Gosgortekhzdat, 1963. 195 p. (MIRA 17:2)

17
Methods for the experimental study of the physicochemical properties of industrial dusts and their effect upon the living organism. E. A. VODORONKIN AND I. R. PRIMOY. *Arb. Leningrad Inst. Gornobag. u. Uspolobkhuizng* 3, No. 4, 32 (11/1930). — A rather thorough lab. study of the subject with special reference to types of dust chambers, methods of dust collection, the app. used in the Leningrad Inst. of Labor Hygiene and Industrial Safety, esp. animal chamber, etc. Diagrams, photographs, photomicrographs of dusts, tables and curves total 36. A representative bibliography is appended. R. S. LIVING

ASB 31.8 METALLURGICAL LITERATURE CLASSIFICATION

1930-1939

140000

12

The pathology of lead poisoning. I. R. Putnov. *Arch Leningrad Inst. Leningradskiy*
hyg. i. (Inzhenering) 3, No. 6, 62 (1930). of C. A. 34, 4940. The pathologic
picture produced by inhalation of red-lead dust is identical with the picture of general
Pb poisoning. In the exptl. animals the dog is the most sensitive, showing the same
picture of poisoning as does man. Animals subjected to Pb poisoning manifested
loss in wt., general gastrointestinal disturbances, loss of appetite, diarrhea, constipa-
tion, colic, increase in the blood sugar at the onset and in the middle of the period of
exptl. poisoning, increase in the blood cholesterol and changes in the blood picture,
such as progressive anemia, appearance of punctate erythrocytes, of polychromatosis,
of anisocytes and normoblasts, of a leucocytosis in some and a leucopenia in other ani-
mals, of lymphocytes and monocytes and a general shift to the left according to Schilling.
Functionally a hypertonia and tachycardia were observed. An instability in the
tonicity of the circulatory vessels was accompanied by an increase or decrease in the
blood pressure with corresponding changes in the pulse rate. Some animals mani-
fested a rather stable hypotonicity and bradycardia. A heightened nervous irritability
appeared in the early stages of the poisoning and a state of depression toward the end.
Among the morphologic changes of the various organs were inflammatory changes and
hemorrhages of the intestinal tract, necrotic changes of the liver cells and an acute
yet not well furnished, glomerulonephritis and nephros-nephritis. The seat of the
mechanism of the hyper- and hypotonicity resides in the vasomotor nervous apparatus.
The functional hyper- and hypotonicity are to be included among the diagnostic symp-
toms of Pb poisoning. The contradictory tendency concerning the frequency of the
occurrence of hyper- and hypotonicity in Pb poisoning arises from the fact that in-
vestigators in the past did not perform sufficient numbers of experiments and arrested
their attention on one stage of Pb poisoning to the exclusion of other stages or phases
of the disease. Alkaid augments the effect of Pb poisoning in experimental animals
and the blood pressure is considerably raised by it.

3

U. S. L. 10010

Resuscitation after electric shock. (The potassium and calcium of the blood in electric shock.) I. M. Pavlov and R. P. Lisunov. *Arch. int. med.* (U. S. S. R.) 32, 220-24 (1932). When a 120 v 50 cycles a.c. was passed through rabbits, once or repeatedly, the animal usually survived the shock but frequently there was a fall in blood pressure and depressed cardiac action. In most rabbits the blood serum K was greatly increased while the Ca was diminished. In dogs, however, the same treatment invariably was fatal, the cause of death being heart failure accompanied by ventricular fibrillation. The same was observed in a small group of rabbits. In the dogs and the better group of rabbits the serum Ca was increased but the K remained constant or slightly decreased. Intravenous injection of 0.5% NaCl solution arrested the fibrillatory contractions. In a single case on a man a slight increase in serum K and a diminution of the Ca were observed. The authors recommend in cases of severe elec. shock the intracardiac injections of KCl followed by $CaCl_2$ in addition to the usual resuscitating methods.

W. A. PAVLOV.

The influence of various dusts on the organism I. R.
Petrov. Arch. sci. med. (U S S R) 34, 687-700 in
German (1934). An extensive study was made on
animals of various org. invag. industrial and other dusts.
of the deposition, absorption, distribution and pathol
effects W. A. Perlman

BC

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Pathogenesis of circulatory disturbances in anaphylactic shock. I. R. Patnov and L. G. Bonomolova (Proc. Shock Congress, Kiev, 1937, 159—163).—Anaphylactic shock in dogs is associated with a profound disturbance of portal circulation.

R. T

350 514 METALLURGICAL LITERATURE CLASSIFICATION

BC

Significance of sensitization of the organism in development of complications following transfusion of incompatible blood. I. R. Parnov and L. G. Bockstov. (Proc. Shock Congress, Kiev, 1937, 164—166).—Dogs sensitized with human blood react to injections of horse blood, and even of the blood of other dogs. Anamnestic effects are obtained after sensitization with horse plasma or with hemolyzed dog's blood, or after resorption of sterile necrotic tissue. The possibility of similar non-specific sensitization arising in man as a result of pericaps injections or of pathologic processes is envisaged. R. T.

PETROV, I. A.

"Shock and Collapse" (Shok i Kollaps), Leningrad, 1947.

CA

116

Changes in nervous function, metabolism, and blood cells in resuscitated animals. I. B. Petrov, M. G. Danilov, I. E. Kozlovskaya, and R. I. Katchika. *Izv. Akad. Nauk SSSR Ser. Biol.* 1966, 12: 241-246. Cerebral function was studied by inducing in animals cerebral anemia, exsanguination, and asphyxia. In the present study, changes in hematopoiesis, respiration, K, Ca, Mg, Na, sugar, alkali reserve, and cholinesterase activity of the blood were observed during the various phases of recovery of central nervous system function after cerebral anemia. During the stage of recovery of medullary function, blood sugar rose; during recovery of

medullary and mid brain function, the K level in the blood K level increased. At the same time, the cholinesterase activity of the blood decreased. Together with the metabolic changes, the left in the different stages of recovery of function.

PETROV, I. R.

PA 42/49T60

USSR/Medicine - Physiology
Medicine - Oxygen, Consumption

Jan/Feb '49

"Changes in Oxygen Utilization by Animals With
Disrupted Cerebral Function," I. R. Petrov,
Chair of Pathophysiol, Mil Acad imeni S. M. Kirov,
Leningrad, 4½ pp

"Arkhir Patologii" Vol XI, No 1

Describes series of experiments on cats. Shows
results graphically and discusses. Submitted.
28 Jan 47.

42/49T60

PETROV, I.B., 1974. *U.S.S.R. 1974. 1974. 1974.*

Resolution of the Plenary Session of the Board of the All-Union
Society of Pathophysiologists on January 11, 1963. Pa. 101-102.
1. Predsedatel:

1. Predsedatel' pravleniya Vsesoyuznogo bezobrazovatel'nogo zhen-
logovogo deystvitel'nogo shkola AMN SSSR (for Petrov). . . Sekretar'
pravleniya Vsesoyuznogo bezobrazovatel'nogo zhenlogov (for Kulagin).

PETROV, I.R. (Leningrad)

Modified carbohydrate-phosphorus metabolism in the brain
following traumatic shock. Pat. fiziol. i eksp. terap. 6 no.6:
12-16 N-D'62 (MIRA 17:3)

1. Iz kafedry patologicheskoy fiziologii (nachal'nik-deystvitel'-
nyy chlen AMN SSSR prof. I.R. Petrov) Voenno-meditsinskoy ordena
Lenina akademii imeni Kirova, Leningrad.

PETROV, I. R., BOGOMOLOVA, I. G. and CHAPLYGINA, Z. A.

"New Colloid Blood Substitutes," Aktual'nyye Voprosy Perezhivaniya Krovi,
Leningrad, 1952

GROMOVA, K.G.; KUBRITSKAYA, T.Ye.; PETROV, I.R.; SHAPOT, V.S.

Metabolism of labile phosphorus compounds in the brain in cerebral anemia during protective inhibition. Biokhimiia, Moskva 17 no.1:13-24 Jan-Feb 1952.
(CLML 24:5)

1. Department of Biochemistry, Institute of Experimental Medicine of the Academy of Medical Sciences USSR, Leningrad.

PETROV, I.R. (Leningrad).

Certain aspect of anoxia according to I.P. Pavlov's theory. Arkh.pat. 15
no.2:3-14 Mr-Apr '53.

'MLRA 6:5)
(Anoxemia)

(CA 47 no.1: 1207 '53)

USSR/Medicine - Hypoxia

May/Jun 53

"Combined Therapy of Cerebral Hypoxia With Hypnotics and Oxygen," I. P. Petrov, V. S. Shapot, T. Ye. Kudritskaya, K. G. Gromova, Military-Med Acad Im S. M. Kirov; Biochem Div, Inst Engl Med, Acad Sci USSR

Farmakol i Toksikol, Vol 16, No 1, pp 10-11

Hypoxia induced in rats by typhlophthorin. The arterial pressure can be relieved by administration of oxygen (putting the animals in a chamber with 50% of

270789

oxygen) or administration of substances which produce protective inhibition (1 cc. mixt of urethane and veronal). When both methods of treatment are combined, the effect is superior to either method applied alone. Giving of atropine and pilocarpine per se -- increases still further the anesthetic effects of the combined treatment. The results of this investigation are of potential value from the standpoint of clinical application.

270789

SHAPOT, V.S.; PETROV, I.R.; GROMOVA, K.G.; KUDRITSKAYA, T.Ye.

Role of irritation of the central nervous system in the increase of sensitivity of the organism to anoxia. Fiziol. zh. SSSR 39 no.5:614-617
Sept-Oct 1953. (CML 25:4)

1. Department of Biochemistry of the Institute of Experimental Medicine of the Academy of Medical Sciences USSR and the Department of Pathophysiology of Military Medical Academy imeni S. M. Kirov, Leningrad.

PETROV, I. P.
USSR/Medicine - Physiology

FD-935

Card 1/1 Pub 33-18,29

Author : Petrov, I. P. and Zor'kin, A. A.

Title : New methods of examining depressor reflex from baroreceptors of sino-carotid zone

Periodical : Fiziol. zhur. 40, 357-358, May/Jun 1954

Abstract : Ye. A. Moyseyev's method of determining depressor reflex from baroreceptors of sino-carotid zone has many defects. The improved method proposed by the author of this article makes use of vascular obturator to increase pressure in the sino-carotid zone. Experiments conducted on dogs proved superiority of this method over Ye. A. Moyseyev's method. The new method may also be used in exciting baroreceptors of other vessels. Diagrams. Table.

Institution : Chair of Pathological Physiology, Military Medical Academy imeni S. M. Kirov

Submitted : April 6, 1953

PETROV, I.R., professor; GUBLER, Ye.V., kandidat meditsinskikh nauk
(Adres avtorov. Leningrad ul. Lebedeva, 37. Kafedra patologicheskoy
fiziologii)

Significance of general hypothermia in the complex of preventive
measures in difficult surgery. Vest. khir. 74 no.4:34-46 Je '54.
(MLRA 7:7)

1. Iz kafedry patologicheskoy fiziologii (nach. prof. I.R.Petrov)
Voyenno-meditsinskoy akademii im. S.M.Kirova. 2. Chlen-korrespon-
dent AMN SSSR (for Petrov)

(HIBERNATION, artificial,
*in surg.)

PETROV, I.R., prof.; NEKRASOVA, N.V.

Use of dry serum with a hypertonic concentration of sodium chloride
for the treatment of acute blood loss. Akt.vop.perel.krovi no.4:
127-128 '55. (MIRA 13:1)

1. Laboratoriya eksperimental'noy patologii Leningradskogo instituta
perelivaniya krovi. 2. Chlen-korrespondent AMN SSSR (for Petrov).
(BLOOD PLASMA SUBSTITUTES)

PETROV, I.R., prof.; IL'INSKAYA, I.V., starshiy nauchnyy sotrudnik; ROTVEL'D,
L.S., kand.biol.nauk

Comparative analysis of the biochemical and morphological composition
of the bone marrow and peripheral blood in animals with protein de-
ficiency. Akt.vop.perel.krovi no.4: 228-230 '55. (MIRA 13:1)

1. Laboratoriya eksperimental'noy patologii Leningradskogo instituta
perelivaniya krovi (zav. laboratoriyey - chlen-korrespondent AMN SSSR
prof I.R. Petrov). 2. Chlen-korrespondent AMN SSSR (for Petrov).
(MARROW) (BLOOD--EXAMINATION)
(PROTEIN METABOLISM)

PETROV, I.R., prof.; IL'INSKAYA, I.V., starshiy nauchnyy sotrudnik; ROTFEL'D, L.S., kand.biol.nauk

Change in the morphological and biochemical composition of the peripheral blood and of the bone marrow in animals subjected to starvation and nerve injury. Akt.vop.perel.krovi no.4:230-234 '55.

(MIRA 13:1)

1. Laboratoriya eksperimental'noy patologii Leningradskogo instituta perelivaniya krovi (zav. laboratoriyey - chlen-korrespondent AMN SSSR prof. I.R. Petrov). 2. Chlen-korrespondent AMN SSSR (for Petrov)
(MARROW) (BLOOD--EXAMINATION) (STARVATION)
(NERVES--WOUNDS AND INJURIES)

6984. Complete therapy in clinical death. I. R. Petrov *Vopr. Khir.*, 1955, No. 8, 40-55; *Referat. Zh. Biol.*, 1956, Abstr. No. 91310. —Negovskii's method of revival (centripetal warming of blood in an artery, artificial respiration with active inspiration) has been supplemented with the following procedures directed towards a more complete restoration of the function of c.n.s. after clinical death: —(i) repeated injection of glucose and vitamins C and B, for 5 hr. and even on the days following resuscitation. (ii) addition of ATP to the above mentioned measures, (iii) addition of Na-glutamate and nicotinic acid, and (iv) addition of luminal. Methods (ii) and (iii) permitted, in a part of the experiments, the complete restoration of the function of c.n.s. in cats 8-7 min. after clinical death. Even better results were obtained by method (iv), function being restored in 3 cats after 7 min, 20 sec., 7 min, 20 sec. and 8 min., respectively. The time of restoration of independent breathing is of prognostic significance for the outcome of the experiment. (Russian)

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PETROV, I. R., Prof. and KULAGIN, V. K. Major, Medical Corps.

Prof. Colon, Med Corps.

Cand. in Medicine.

"The Prevention of Wound Shock - An Urgent Problem in Military Medicine."
Voenno meditsinskiy zhurnal. No. 11. Nov 1955. P. 1948.

Translation M 3.053.554

USSR/Medicine - Physiology

FD-369j

Card 1/1 Pub. 33-2/20

Author : Petrov, I. R.

Title : Experimental study of oxygen starvation of the brain and its clinical significance

Periodical : Fiziol. zhur. 41, 9-12, Jan-Feb 1955

Abstract : Studied functional and certain biochemical and morphological changes in the brain during anemia. Develops a therapy for serious forms of oxygen insufficiency. Also develops measures to prevent serious complications in operations accompanied by hypoxia of the brain. States the following participated in experiments in connection with the above study: Ye. V. Gubler; T. Ye. Kudritskaya; N. I. Kochetygov; P. V. Vasil'yev; and A. A. Zor'kin; K. G. Gromov and V. S. Shapot, collaborators of the Biochemistry Department of the Institute of Experimental Medicine; and V. F. Kurkovskiy and G. A. Akimov, neurohistologists of the Military Medical Academy imeni S. M. Kirov. Investigation on the above problem is being continued by the author jointly with the Chair of Biochemistry, directed by Prof. G. Ye. Vialimirov. Forty-one references, 37 of them USSR (25 since 1940).

Institution : Chair of Pathologic Physiology of the Military Medical; Order of Lenin, Academy imeni S. M. Kirov

Submitted : October 15, 1954

PESTROV, I.R., professor.

Compound therapy in clinical death; experimental research.
Vest.khir. 75 no.6:40-48 J1 '55. (MLRA 8:10)

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kv. 18

(RESUSCITATION, physiol.)

PETROV, I.R., professor

Hypothermia in preventing complications from exclusion of the heart from the blood circulation; experimental research. Vest. khir. 76 no.7:48-59 Ag '55. (MLRA 8:10)

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(HEART, surg.

exper.controlled hypothermia in, eff. on survival in clamping of vena cava)

(BODY TEMPERATURE

hypothermia, exper. in heart surg., eff. on survival in clamping of vena cava)

PETROV, I. P.

"The Complex Prophylaxis and Therapy of Severe Cerebral Ischemia,"
report presented at the 2nd All-Union Conference of Pathophysiologicals,
Kiev from 20 June to 1 July 1961.

From 1961 to 1962